

What should districts be doing?

- Get to know the Common Core State Standards for Mathematics through both grade-level and vertical teams, in professional learning communities where possible.
- Support teachers in envisioning what the Standards for Mathematical Practice will look like in their classrooms. The Standards for Mathematical Practice are the core of mathematical learning.
 - 1) Make sense of problems and persevere in solving them.
 - 2) Reason abstractly and quantitatively.
 - 3) Construct viable arguments and critique the reasoning of others.
 - 4) Model with mathematics.
 - 5) Use appropriate tools strategically.
 - 6) Attend to precision.
 - 7) Look for and make use of structure.
 - 8) Look for and express regularity in repeated reasoning.
- Use the *critical areas of focus* (focal points) in grades K-8 to consider how to:
 - Focus instruction on the big ideas at a grade level. Rather than teaching standards individually, consider joining standards together in support of the critical areas of focus.
 - Understand the learning progressions. Vertical teams should use the critical areas of focus to make connections between the grades by examining how the learning in one grade builds on the learning that is expected in the previous year and builds toward the next year.
- Use Achieve's Model Pathways (Mathematics Appendix A) to support discussions of how to focus high school mathematics courses. The units are essentially the same across the two pathways, and they serve the same purpose as the critical areas for grades K-8.
- Look for ways to *use previous mathematics in service of new ideas* (at grade level) rather than reteaching mathematics that students should have learned in previous grades.
- Develop support structures for struggling students in the middle grades and earlier, so that all students get access to the regular curriculum and some students get additional support. (This is what Response to Intervention is all about.)
- Pay attention to opportunities and resources provided by ODE and OCTM, as well as national groups, such as NCTM, NCSM and the assessment consortia. Be skeptical of easy alignment and quick fixes.

Additional Support

Common Core State Standards Initiative..... <http://www.corestandards.org>
 Smarter Balanced Assessment Consortium (SBAC) <http://www.k12.wa.us/SMARTER>
 Partnership for Assessment of Readiness for College and Careers (PARCC) <http://www.achieve.org/PARCC>
 Ohio Resource Center for Mathematics, Science and Reading <http://www.ohiorc.org>
 National Council of Teachers of Mathematics (NCTM) <http://www.nctm.org>
 Ohio Council of Teachers of Mathematics (OCTM) <http://www.ohioctm.org>
 National Council of Supervisors of Mathematics (NCSM) <http://www.mathedleadership.org>

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